

Distributive Property - Expansion

$$a(b+c) \Rightarrow ab+ac$$

$$2r(r+b) \Rightarrow 2r^2+12r$$

Factoring - Division

$$ab+ac \Rightarrow a(b+c)$$

$$3r^2+6r \Rightarrow 3r(r+2)$$

- must have a common factor for all terms in a polynomial

Feb 19-7:31 AM

Simplify

$$i) 4rs + 16$$

$$= 4(rs+4)$$

$$ii) 2x^2y + 4xy$$

$$= 2xy(xy+2)$$

$$iii) 9s^2t^3 + 6s^2t^2 + 3s^2t$$

$$= 3s^2t(3st^2 + 2t + 1)$$

Feb 19-7:35 AM

$$4r^2s^2t^2 + 8r^2st + 2s^2t$$

$$2st^2(2r^2s + 4r^2t + 1)$$

Feb 19-8:40 AM

Assign q. 4, 5, 7, 9, 18  
p. 263- 266

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$$18b) 2(5a^3-b^3) + 6(a^3+b^3)$$

$$= 10a^3 - 2b^3 + 6a^3 + 6b^3$$

$$= 16a^3 + 4b^3$$

$$4(4a^3 + b^3)$$

Apr 10-2:01 PM

4.2 Factoring p. 262- 266

Opener Review - Distributive Property

Factoring

$$i) -\frac{15r}{5} - \frac{21r}{7}$$

$$= -3r - 3r$$

$$= -6r$$

$$ii) \frac{15x^2-5}{5}$$

$$5(3x^2-1)$$

$$iii) 3x^2-15x$$

$$3x(x-5)$$

$$iv) 24x^3+8x^2+4x$$

$$4x(6x^2+2x+1)$$

$$v) 2r^3s^3+4r^2s+2rs$$

$$2rs(r^2s^2+2r+1)$$

Apr 10-7:40 AM